

Reg. No. :

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**Question Paper Code: U2502**

M.E. DEGREE EXAMINATION, NOV 2023

Second Semester

Power Electronics and Drives

21PPE202– EMBEDDED CONTROL OF POWER ELECTRONIC AND DRIVE SYSTEMS

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART - A (5 x 20 = 100 Marks)

1. (a) Discuss about the different memory spaces and their mapping structures CO1- U (20)  
Or  
(b) Explain the various memory addressing modes of TMS320LF2407 DSP processor. CO1- U (20)
2. (a) Explain about the interrupt control registers CO2- U (20)  
Or  
(b) Summarize about the concepts pin multiplexing and GPIO control register CO2- U (20)
3. (a) Explain in detail about General Event Manager Information. CO3- U (20)  
Or  
(b) Draw and Explain the Quadrature Enclosed Pulse (QEP) Circuitry CO3- App (20)
4. (a) Explain the various types of FPGA and Xilinx XC3000 series CO4- U (20)  
Or  
(b) Explain about the PIP and Xilinx 4000 series CO4- U (20)
5. (a) Explain Switched Mode Power Converters using FPGA CO5- U (20)  
Or  
(b) Explain DSP control of Dc Motor drive CO5- U (20)

